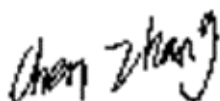


# TEST REPORT

Product Name: Five-pass amphibious small shark stunt car  
FCC ID: 2AMVB-989-313  
Trademark: N/A  
Model Number: 989-313, See next page for other models  
Prepared For: XIONGQI TOYS FACTORY  
Address: NO.8, 1 ROAD, LIANDONG WEST, LIANXIA TOWN OF XIACUN INDUSTRIAL ZONE, CHENGHAI DISTRICT, SHANTOU, China  
Manufacturer: XIONGQI TOYS FACTORY  
Address: NO.8, 1 ROAD, LIANDONG WEST, LIANXIA TOWN OF XIACUN INDUSTRIAL ZONE, CHENGHAI DISTRICT, SHANTOU, China  
Prepared By: Shenzhen CTB Testing Technology Co., , Ltd,  
Address: Floor 1&2, Building A, No, 26 of Xinhe Road, Xinqiao Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, China,  
Sample Received Date: Jul. 20, 2022  
Sample tested Date: Jul. 20, 2022 to Jul. 26, 2022  
Issue Date: Jul. 26, 2022  
Report No, : CTB220726031RF  
Test Standards FCC Part15, 249  
ANSI C63, 10:2013  
Test Results PASS  
Remark: This is 2.4GHz radio test report,

Compiled by:

Chen Zheng

Reviewed by:

Arron Liu

Approved by:

Bin Li Director

Note: If there is any objection to the inspection results in this report, please submit a written report to the company within 15 days from the date of receiving the report, The test report is effective only with both signature and specialized stamp, This result(s) shown in this report refer only to the sample(s) tested, Without written approval of Shenzhen CTB Testing Technology Co., , Ltd, this report can't be reproduced except in full, The tested sample(s) and the sample information are provided by the client, "\*" indicates the testing items were fulfilled by subcontracted lab, "#" indicates the items are not in CNAS accreditation scope,

Other models are as follows:

989-01, 989-02, 989-03, 989-04, 989-05, 989-06, 989-07, 989-08, 989-09, 989-10, 989-01A, 989-02A, 989-03A, 989-04A, 989-11, 989-12, 989-13, 989-14, 989-15, 989-16, 989-17, 989-18, 989-19, 989-20, 989-11B, 989-12B, 989-13B, 989-14B, 989-15B, 989-16B, 989-17B, 989-18B, 989-19B, 989-20B, 989-21, 989-22, 989-23, 989-24, 989-25, 989-26, 989-27, 989-28, 989-29, 989-30, 989-31, 989-32, 989-33, 989-34, 989-35, 989-36, 989-37, 989-38, 989-39, 989-40, 989-31B, 989-32B, 989-33B, 989-34B, 989-35B, 989-36B, 989-37B, 989-38B, 989-39B, 989-40B, 989-111, 989-222, 989-333, 989-555, 989-666, 989-777, 989-888, 989-999, 989-323, 989-353, 989-363, 989-373, 989-383, 989-393, 989-393A, 989-51, 989-52, 989-53, 989-54, 989-55, 989-56, 989-57, 989-58, 989-59, 989-60, 989-61, 989-62, 989-63, 989-64, 989-65, 989-66, 989-67, 989-68, 989-69, 989-70, 989-71, 989-72, 989-73, 989-74, 989-75, 989-76, 989-77, 989-78, 989-79, 989-80, 989-81, 989-82, 989-83, 989-84, 989-85, 989-86, 989-87, 989-88, 989-89, 989-90, 989-91, 989-92, 989-93, 989-94, 989-95, 989-96, 989-97, 989-98, 989-99, 989-303

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(Note: N/A means not applicable)



## 1. VERSION

| Report No,     | Issue Date    | Description | Approved |
|----------------|---------------|-------------|----------|
| CTB220726031RF | Jul. 26, 2022 | Original    | Valid    |

## 2. TEST SUMMARY

The Product has been tested according to the following specifications:

| Standard Section | Test Item                                            | Judgment | Remark |
|------------------|------------------------------------------------------|----------|--------|
| 15, 207          | Conducted Emission                                   | PASS     |        |
| 15, 215          | 20dB Bandwidth                                       | PASS     |        |
| 15, 249          | Fundamental & Radiated Spurious Emission Measurement | PASS     |        |
| 15, 205          | Band Edge Emission                                   | PASS     |        |
| 15, 203          | Antenna Requirement                                  | PASS     |        |

Remark:

Test according to ANSI C63, 4-2014 & ANSI C63, 10-2013,

### 3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2, This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2,

| Item                                               | Uncertainty        |
|----------------------------------------------------|--------------------|
| Occupancy bandwidth                                | 54, 3kHz           |
| Conducted output power Above 1G                    | 0, 9dB             |
| Conducted output power below 1G                    | 0, 9dB             |
| Power Spectral Density , Conduction                | 0, 9dB             |
| Conduction spurious emissions                      | 2, 0dB             |
| Out of band emission                               | 2, 0dB             |
| 3m chamber Radiated spurious emission(9KHz-30MHz)  | 4, 8dB             |
| 3m chamber Radiated spurious emission(30MHz-1GHz)  | 4, 6dB             |
| 3m chamber Radiated spurious emission(1GHz-18GHz)  | 5, 1dB             |
| 3m chamber Radiated spurious emission(18GHz-40GHz) | 3, 4dB             |
| humidity uncertainty                               | 5, 5%              |
| Temperature uncertainty                            | 0, 63°C            |
| frequency                                          | 1×10 <sup>-7</sup> |
| Conducted Emission (150KHz-30MHz)                  | 3, 2 dB            |
| Radiated Emission(30MHz ~ 1000MHz)                 | 4, 8 dB            |
| Radiated Emission(1GHz ~6GHz)                      | 4, 9 dB            |

#### 4. PRODUCT INFORMATION AND TEST SETUP

##### 4.1 Product Information

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model(s):             | 989-313, 989-01, 989-02, 989-03, 989-04, 989-05, 989-06, 989-07, 989-08, 989-09, 989-10, 989-01A, 989-02A, 989-03A, 989-04A, 989-11, 989-12, 989-13, 989-14, 989-15, 989-16, 989-17, 989-18, 989-19, 989-20, 989-11B, 989-12B, 989-13B, 989-14B, 989-15B, 989-16B, 989-17B, 989-18B, 989-19B, 989-20B, 989-21, 989-22, 989-23, 989-24, 989-25, 989-26, 989-27, 989-28, 989-29, 989-30, 989-31, 989-32, 989-33, 989-34, 989-35, 989-36, 989-37, 989-38, 989-39, 989-40, 989-31B, 989-32B, 989-33B, 989-34B, 989-35B, 989-36B, 989-37B, 989-38B, 989-39B, 989-40B, 989-111, 989-222, 989-333, 989-555, 989-666, 989-777, 989-888, 989-999, 989-323, 989-353, 989-363, 989-373, 989-383, 989-393, 989-393A, 989-51, 989-52, 989-53, 989-54, 989-55, 989-56, 989-57, 989-58, 989-59, 989-60, 989-61, 989-62, 989-63, 989-64, 989-65, 989-66, 989-67, 989-68, 989-69, 989-70, 989-71, 989-72, 989-73, 989-74, 989-75, 989-76, 989-77, 989-78, 989-79, 989-80, 989-81, 989-82, 989-83, 989-84, 989-85, 989-86, 989-87, 989-88, 989-89, 989-90, 989-91, 989-92, 989-93, 989-94, 989-95, 989-96, 989-97, 989-98, 989-99, 989-303 |
| Model Description:    | All the model are the same circuit and RF module, only for model name, Test sample model: 989-313                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Hardware Version:     | V1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Software Version:     | V1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Operation Frequency:  | 2410-2473MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Type of Modulation:   | GFSK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Antenna installation: | Interna Antenna                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Antenna Gain:         | 1dBi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Ratings:              | DC 3V by battery                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

#### 4, 2 Test Setup Configuration

See test photographs attached in EUT TEST SETUP PHOTOGRAPHS for the actual connections between Product and support equipment,

#### 4, 3 Support Equipment

| Item | Equipment | Mfr/Brand | Model/Type No, | Series | Note |
|------|-----------|-----------|----------------|--------|------|
|      |           |           |                |        |      |

#### Notes:

- 1, All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test,
- 2, Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use,

#### 4, 4 Channel List

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| 1       | 2410            | 11      | 2429            | 21      | 2450            | 31      | 2469            |
| 2       | 2414            | 12      | 2430            | 22      | 2452            | 32      | 2473            |
| 3       | 2415            | 13      | 2431            | 23      | 2454            |         |                 |
| 4       | 2416            | 14      | 2433            | 24      | 2456            |         |                 |
| 5       | 2417            | 15      | 2434            | 25      | 2458            |         |                 |
| 6       | 2418            | 16      | 2439            | 26      | 2462            |         |                 |
| 7       | 2419            | 17      | 2441            | 27      | 2464            |         |                 |
| 8       | 2421            | 18      | 2442            | 28      | 2465            |         |                 |
| 9       | 2426            | 19      | 2444            | 29      | 2466            |         |                 |
| 10      | 2428            | 20      | 2446            | 30      | 2467            |         |                 |

#### 4, 5 Test Mode

All test mode(s) and condition(s) mentioned were considered and evaluated respectively by performing full tests, the worst data were recorded and reported,

| Test mode            | Low channel | Middle channel | High channel |
|----------------------|-------------|----------------|--------------|
| Transmitting<br>GFSK | 2410MHz     | 2439MHz        | 2473MHz      |

#### 4, 6 Test Environment

|                            |     |
|----------------------------|-----|
| Humidity(%):               | 54  |
| Atmospheric Pressure(kPa): | 101 |
| Normal Voltage(DC):        | 3V  |
| Normal Temperature(°C)     | 23  |
| Low Temperature(°C)        | 0   |
| High Temperature(°C)       | 40  |

## 5. TEST FACILITY AND TEST INSTRUMENT USED

### 5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Floor 1&2, Building A, No. 26 of Xinhe Road, Xinqiao Street, Baoan District, Shenzhen China. The site and apparatus are constructed in conformance with the requirements of ANSI C63, 4 and CISPR 16-1-1 other equivalent standards,

### 5.2 Test Instrument Used

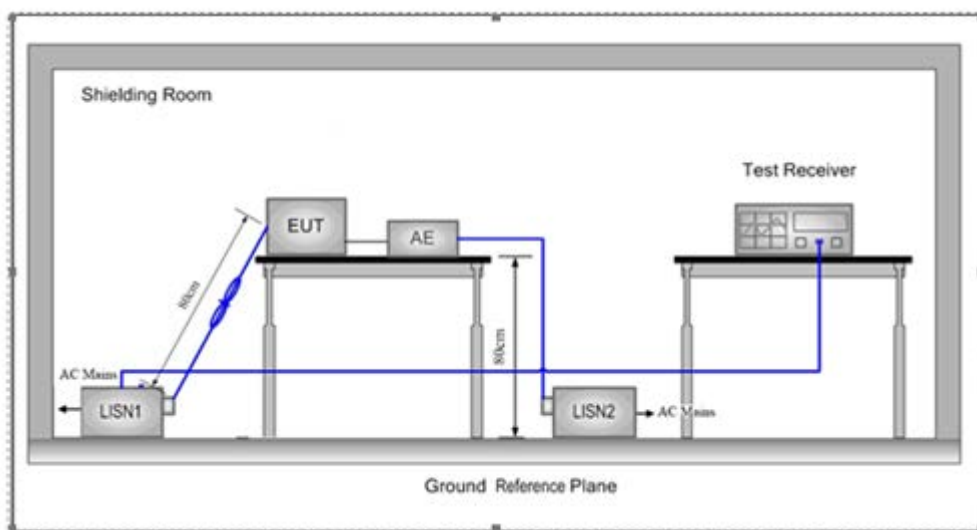
| No. | Equipment                                 | Manufacturer | Model No.              | Serial No.      | Calibrated date | Calibrated until |
|-----|-------------------------------------------|--------------|------------------------|-----------------|-----------------|------------------|
| 1   | Spectrum Analyzer                         | Agilent      | N9020A                 | MY52090073      | 2021, 09, 27    | 2022, 08, 05     |
| 2   | Power Sensor                              | Agilent      | U2021XA                | MY56120032      | 2021, 09, 27    | 2022, 08, 05     |
| 3   | Power Sensor                              | Agilent      | U2021XA                | MY56120034      | 2021, 09, 27    | 2022, 08, 05     |
| 4   | Communication test set                    | R&S          | CMW500                 | 108058          | 2021, 09, 27    | 2022, 08, 05     |
| 5   | Spectrum Analyzer                         | R&S          | FSP40                  | 100550          | 2021, 09, 27    | 2022, 08, 05     |
| 6   | Signal Generator                          | Agilent      | N5181A                 | MY49060920      | 2021, 09, 27    | 2022, 08, 16     |
| 7   | Signal Generator                          | Agilent      | N5182A                 | MY47420195      | 2021, 09, 27    | 2022, 08, 05     |
| 8   | Communication test set                    | Agilent      | E5515C                 | MY50102567      | 2021, 09, 27    | 2022, 08, 16     |
| 9   | band rejection filter                     | Shenxiang    | MSF2400-2483, 5MS-1154 | 20181015001     | 2021, 09, 27    | 2022, 08, 05     |
| 10  | band rejection filter                     | Shenxiang    | MSF5150-5850 MS-1155   | 20181015001     | 2021, 09, 27    | 2022, 08, 05     |
| 11  | band rejection filter                     | Xingbo       | XBLBQ-DZA120           | 190821-1-1      | 2021, 09, 27    | 2022, 08, 05     |
| 12  | BT&WI-FI Automatic test software          | Microwave    | MTS8310                | Ver, 2, 0, 0, 0 | 2021, 09, 27    | 2022, 08, 05     |
| 13  | Rohde & Schwarz SFU Broadcast Test System | R&S          | SFU                    | 101017          | 2021, 09, 27    | 2022, 08, 05     |
| 14  | Temperature humidity chamber              | Hongjing     | TH-80CH                | DG-15174        | 2021, 09, 27    | 2022, 08, 05     |
| 15  | 234G Automatic test software              | Microwave    | MTS8200                | Ver, 2, 0, 0, 0 | 2021, 09, 27    | 2022, 08, 05     |
| 16  | 966 chamber                               | C, R, T,     | 966 Room               | 966             | 2021, 09, 27    | 2024, 08, 11     |
| 17  | Receiver                                  | R&S          | ESPI                   | 100362          | 2021, 09, 27    | 2022, 08, 05     |
| 18  | Amplifier                                 | HP           | 8447E                  | 2945A02747      | 2021, 09, 27    | 2022, 08, 05     |
| 19  | Amplifier                                 | Agilent      | 8449B                  | 3008A01838      | 2021, 09, 27    | 2022, 08, 05     |
| 20  | TRILOG Broadband Antenna                  | Schwarzbeck  | VULB 9163              | 869             | 2021, 09, 27    | 2022, 08, 07     |
| 21  | Horn Antenna                              | Schwarzbeck  | BBHA9120D              | 1911            | 2021, 09, 27    | 2022, 08, 08     |
| 22  | Software                                  | Fala         | EZ-EMC                 | FA-03A2 RE      | 2021, 09, 27    | 2022, 08, 05     |

|    |                |            |          |          |              |              |
|----|----------------|------------|----------|----------|--------------|--------------|
| 23 | 3-Loop Antenna | Daze       | ZN30401  | 17014    | 2021, 09, 27 | 2022, 08, 05 |
| 24 | loop antenna   | ZHINAN     | ZN30900A | /        | 2021, 09, 27 | 2022, 08, 05 |
| 25 | Horn antenna   | A/H/System | SAS-574  | 588      | 2021, 09, 27 | 2022, 08, 05 |
| 26 | Amplifier      | AEROFLEX   | /        | S/N/ 097 | 2021, 09, 27 | 2022, 08, 05 |

| Radiated emission |                                      |                |                         |            |                 |                  |
|-------------------|--------------------------------------|----------------|-------------------------|------------|-----------------|------------------|
| No,               | Equipment                            | Manufacturer   | Model No,               | Serial No, | Calibrated date | Calibrated until |
| 1                 | Double Ridged Broadband Horn Antenna | Schwarzbeck    | BBHA 9120D              | 1911       | 2021, 09, 27    | 2022, 08, 08     |
| 2                 | TRILOG Broadband Antenna             | Schwarzbeck    | VULB 9168               | 869        | 2021, 09, 27    | 2022, 08, 05     |
| 3                 | Amplifier                            | Agilent        | 8449B                   | 3008A01838 | 2021, 09, 27    | 2022, 08, 05     |
| 4                 | Amplifier                            | HP             | 8447E                   | 2945A02747 | 2021, 09, 27    | 2022, 08, 05     |
| 5                 | EMI TEST RECEIVER                    | ROHDE&SCHW ARZ | ESPI7                   | 100362     | 2021, 09, 27    | 2022, 08, 05     |
| 6                 | Coaxial cable                        | ETS            | RFC-SNS-100-NMS-80 NI   | /          | 2021, 09, 27    | 2022, 08, 05     |
| 7                 | Coaxial cable                        | ETS            | RFC-SNS-100-NMS-20 NI   | /          | 2021, 09, 27    | 2022, 08, 05     |
| 8                 | Coaxial cable                        | ETS            | RFC-SNS-100-SMS-20 NI   | /          | 2021, 09, 27    | 2022, 08, 05     |
| 9                 | Coaxial cable                        | ETS            | RFC-NNS-100-NMS-30 0 NI | /          | 2021, 09, 27    | 2022, 08, 05     |
| 10                | Communication test set               | Agilent        | E5515C                  | MY50102567 | 2021, 09, 27    | 2022, 08, 16     |
| 11                | Communication test set               | R&S            | CMW500                  | 108058     | 2021, 09, 27    | 2022, 08, 05     |
| 12                | EZ-EMC                               | Frad           | EMC-con3A1, 1           | /          | /               | /                |

## 6, AC POWER LINE CONDUCTED EMISSION

### 6, 1 Block Diagram Of Test Setup



### 6, 2 Limit

Table 4 – AC power-line conducted emissions limits

| Frequency (MHz) | Conducted limit (dB $\mu$ V) |                            |
|-----------------|------------------------------|----------------------------|
|                 | Quasi-peak                   | Average                    |
| 0.15 - 0.5      | 66 to 56 <sup>Note 1</sup>   | 56 to 46 <sup>Note 1</sup> |
| 0.5 - 5         | 56                           | 46                         |
| 5 - 30          | 60                           | 50                         |

**Note 1:** The level decreases linearly with the logarithm of the frequency.

\* Decreasing linearly with the logarithm of the frequency

### 6, 3 Test procedure

- 1) The mains terminal disturbance voltage test was conducted in a shielded room,
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50 $\Omega$ /50 $\mu$ H + 5 $\Omega$  linear impedance, The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured, A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded,
- 3) The tabletop EUT was placed upon a non-metallic table 0, 8m above the ground reference plane, And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane, The rear of the EUT shall be 0,4 m from the vertical ground reference plane, The vertical ground reference plane was bonded to the horizontal ground reference plane, The LISN 1 was placed 0,8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference

plane, This distance was between the closest points of the LISN 1 and the EUT, All other units of the EUT and associated equipment was at least 0,8 m from the LISN 2,

- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63, 10 on conducted measurement,
- 6) All modes were tested at AC 120V and 240V, only the worst result of AC 120V 60Hz was reported,
- 7) If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane,

## 6, 4 Test Result

N/A

NOTE: This EUT is powered by DC power only, this test item is not applicable,

## 7. RADIATED SPURIOUS EMISSION

### 7, 1 Block Diagram Of Test Setup

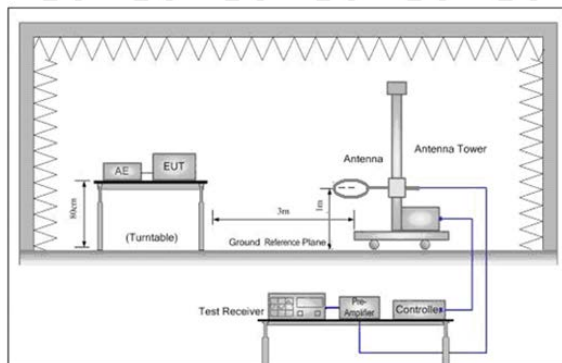


Figure 1, Below 30MHz

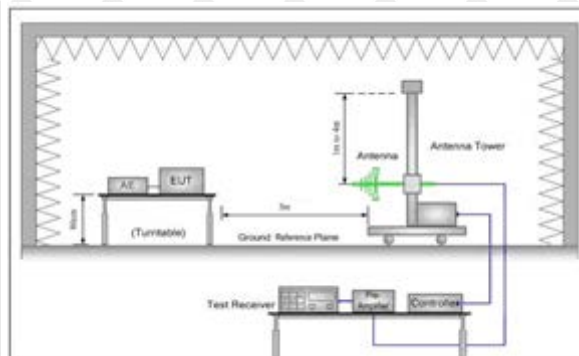
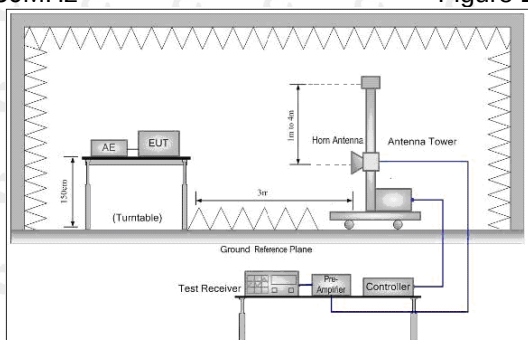


Figure 2, 30MHz to 1GHz



### 7, 2 Limit

Spurious Emissions:

| Frequency           | Field strength (microvolt/meter) | Limit (dBμV/m ) | Remark     | Measurement distance (m) |
|---------------------|----------------------------------|-----------------|------------|--------------------------|
| 0, 009MHz-0, 490MHz | 2400/F(kHz)                      | -               | -          | 300                      |
| 0, 490MHz-1, 705MHz | 24000/F(kHz)                     | -               | -          | 30                       |
| 1, 705MHz-30MHz     | 30                               | -               | -          | 30                       |
| 30MHz-88MHz         | 100                              | 40, 0           | Quasi-peak | 3                        |
| 88MHz-216MHz        | 150                              | 43, 5           | Quasi-peak | 3                        |
| 216MHz-960MHz       | 200                              | 46, 0           | Quasi-peak | 3                        |
| 960MHz-1GHz         | 500                              | 54, 0           | Quasi-peak | 3                        |
| Above 1GHz          | 500                              | 54, 0           | Average    | 3                        |

Note: 15, 35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test, This peak limit applies to the total peak emission level radiated by the device,

### 7, 3 Test procedure

#### Below 1GHz test procedure as below:

- a, The EUT was placed on the top of a rotating table 0, 8 meters above the ground at a 3 meter semi-anechoic chamber, The table was rotated 360 degrees to determine the position of the highest radiation,
- b, The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower,
- c, The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength, Both horizontal and vertical polarizations of the antenna are set to make the measurement,
- d, For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rota table table was turned from 0 degrees to 360 degrees to find the maximum reading,
- e, The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode,
- f, If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported, Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet,

#### Above 1GHz test procedure as below:

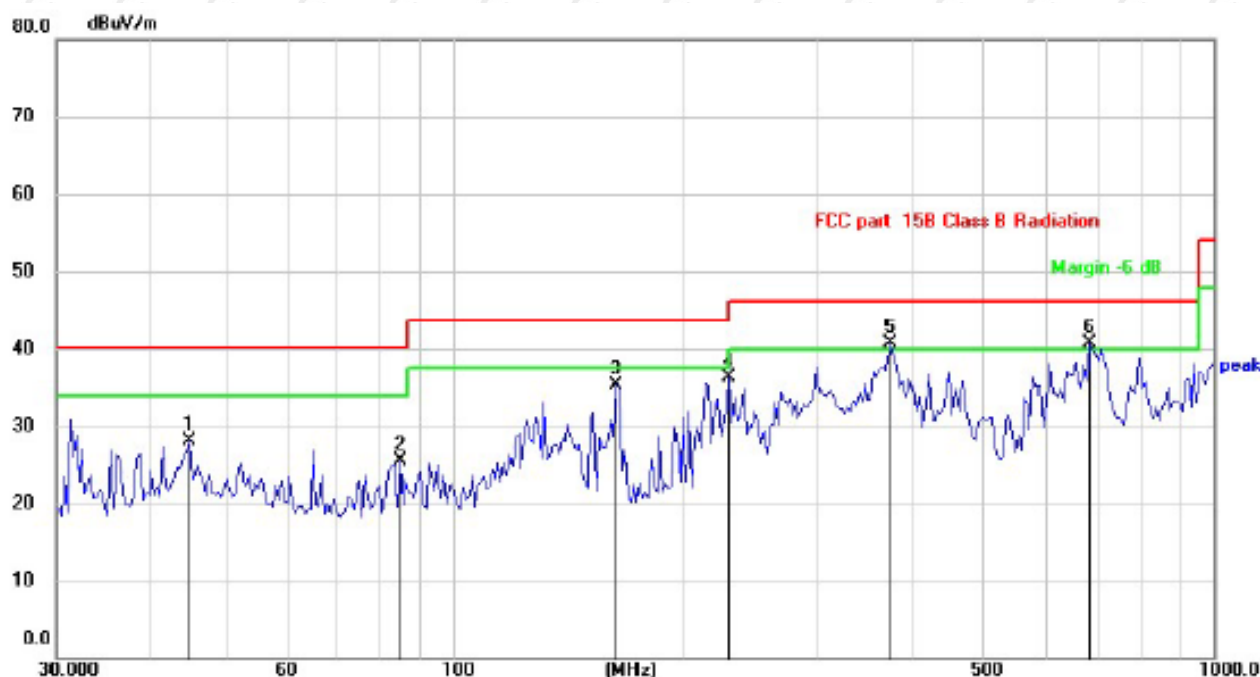
- g, Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0, 8 meter to 1, 5 meter( Above 18GHz the distance is 1 meter and table is 1, 5 meter),
- h, Test the EUT in the lowest channel ,the middle channel ,the Highest channel
- j, Repeat above procedures until all frequencies measured was complete,
- j, Full battery is used during test

Receiver set:

| Frequency           | Detector   | RBW     | VBW    | Remark     |
|---------------------|------------|---------|--------|------------|
| 0, 009MHz-0, 090MHz | Peak       | 10kHz   | 30KHz  | Peak       |
| 0, 009MHz-0, 090MHz | Average    | 10kHz   | 30KHz  | Average    |
| 0, 090MHz-0, 110MHz | Quasi-peak | 10kHz   | 30KHz  | Quasi-peak |
| 0, 110MHz-0, 490MHz | Peak       | 10kHz   | 30KHz  | Peak       |
| 0, 110MHz-0, 490MHz | Average    | 10kHz   | 30KHz  | Average    |
| 0, 490MHz -30MHz    | Quasi-peak | 10kHz   | 30kHz  | Quasi-peak |
| 30MHz-1GHz          | Quasi-peak | 120 kHz | 300KHz | Quasi-peak |
| Above 1GHz          | Peak       | 1MHz    | 3MHz   | Peak       |
|                     | Peak       | 1MHz    | 10Hz   | Average    |

## 7.4 Test Result

Below 1GHz Test Results:  
Antenna polarity: H



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dB/m | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|---------------|------------|----------|
| 1   |     | 44.9004      | 33.61                    | -5.45                   | 28.16                      | 40.00         | -11.84     | QP       |
| 2   |     | 85.1486      | 35.22                    | -9.75                   | 25.47                      | 40.00         | -14.53     | QP       |
| 3   |     | 164.3301     | 41.06                    | -5.82                   | 35.24                      | 43.50         | -8.26      | QP       |
| 4   |     | 231.3119     | 42.13                    | -5.88                   | 36.25                      | 46.00         | -9.75      | QP       |
| 5   | !   | 377.9211     | 43.11                    | -2.46                   | 40.65                      | 46.00         | -5.35      | QP       |
| 6   | *   | 685.9469     | 37.01                    | 3.77                    | 40.78                      | 46.00         | -5.22      | QP       |

Remark: Factor = Cable lose + Antenna factor - Pre-amplifier; Margin = Measurement – Limit

Antenna polarity: V



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dB/m | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|---------------|------------|----------|
| 1   |     | 61.5617      | 39.46                    | -6.44                   | 33.02                      | 40.00         | -6.98      | QP       |
| 2   |     | 131.9889     | 43.06                    | -6.01                   | 37.05                      | 43.50         | -6.45      | QP       |
| 3   |     | 231.3119     | 43.72                    | -5.88                   | 37.84                      | 46.00         | -8.16      | QP       |
| 4   | !   | 295.6648     | 46.24                    | -5.26                   | 40.98                      | 46.00         | -5.02      | QP       |
| 5   | !   | 565.6295     | 38.63                    | 1.93                    | 40.56                      | 46.00         | -5.44      | QP       |
| 6   | *   | 698.0795     | 37.10                    | 3.94                    | 41.04                      | 46.00         | -4.96      | QP       |

Remark: Factor = Cable lose + Antenna factor - Pre-amplifier; Margin = Measurement – Limit

CH Low (2410MHz)  
Horizontal:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2410                                                          | 106.66        | -5.71  | 100.95         | 114      | -13.05 | peak          |
| 2410                                                          | 92.08         | -5.71  | 86.37          | 94       | -7.63  | AVG           |
| 4820                                                          | 54.74         | -3.51  | 51.23          | 74       | -22.77 | peak          |
| 4820                                                          | 46.45         | -3.51  | 42.94          | 54       | -11.06 | AVG           |
| 7230                                                          | 56.08         | -0.82  | 55.26          | 74       | -18.74 | peak          |
| 7230                                                          | 46.51         | -0.82  | 45.69          | 54       | -8.31  | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2410                                                          | 111.08        | -5.84  | 105.24         | 114      | -8.76  | peak          |
| 2410                                                          | 94.10         | -5.84  | 88.26          | 94       | -5.74  | AVG           |
| 4820                                                          | 56.96         | -3.64  | 53.32          | 74       | -20.68 | peak          |
| 4820                                                          | 49.91         | -3.64  | 46.27          | 54       | -7.73  | AVG           |
| 7230                                                          | 59.19         | -0.95  | 58.24          | 74       | -15.76 | peak          |
| 7230                                                          | 48.49         | -0.95  | 47.54          | 54       | -6.46  | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

CH Middle (2439MHz)

Horizontal:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2439                                                          | 106.38        | -5.71  | 100.67         | 114      | -13.33 | peak          |
| 2439                                                          | 93.10         | -5.71  | 87.39          | 94       | -6.61  | AVG           |
| 4878                                                          | 54.55         | -3.51  | 51.04          | 74       | -22.96 | peak          |
| 4878                                                          | 46.30         | -3.51  | 42.79          | 54       | -11.21 | AVG           |
| 7317                                                          | 56.63         | -0.82  | 55.81          | 74       | -18.19 | peak          |
| 7317                                                          | 47.55         | -0.82  | 46.73          | 54       | -7.27  | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2439                                                          | 106.37        | -5.71  | 100.66         | 114      | -13.34 | peak          |
| 2439                                                          | 91.96         | -5.71  | 86.25          | 94       | -7.75  | AVG           |
| 4878                                                          | 54.74         | -3.51  | 51.23          | 74       | -22.77 | peak          |
| 4878                                                          | 45.12         | -3.51  | 41.61          | 54       | -12.39 | AVG           |
| 7317                                                          | 57.10         | -0.82  | 56.28          | 74       | -17.72 | peak          |
| 7317                                                          | 46.75         | -0.82  | 45.93          | 54       | -8.07  | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

CH High (2473MHz)

Horizontal:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2473                                                          | 107.55        | -5.65  | 101.90         | 114      | -12.10 | peak          |
| 2473                                                          | 92.45         | -5.65  | 86.80          | 94       | -7.20  | AVG           |
| 4946                                                          | 55.98         | -3.43  | 52.55          | 74       | -21.45 | peak          |
| 4946                                                          | 46.11         | -3.43  | 42.68          | 54       | -11.32 | AVG           |
| 7419                                                          | 56.59         | -0.75  | 55.84          | 74       | -18.16 | peak          |
| 7419                                                          | 46.86         | -0.75  | 46.11          | 54       | -7.89  | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2473                                                          | 106.32        | -5.65  | 100.67         | 114      | -13.33 | peak          |
| 2473                                                          | 92.17         | -5.65  | 86.52          | 94       | -7.48  | AVG           |
| 4946                                                          | 54.54         | -3.43  | 51.11          | 74       | -22.89 | peak          |
| 4946                                                          | 46.38         | -3.43  | 42.95          | 54       | -11.05 | AVG           |
| 7419                                                          | 56.42         | -0.75  | 55.67          | 74       | -18.33 | peak          |
| 7419                                                          | 46.40         | -0.75  | 45.65          | 54       | -8.35  | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Remark:

- (1) Measuring frequencies from 9KHz to the 25 GHz,
- (2), All modes of GFSK were test at Low, Middle, and High channel, only the worst result of GFSK Low Channel was reported for below 1GHz test,
- (3), For BT above 1GHz test all modes of GFSK were test at Low, Middle, and High channel, only the worst result of GFSK Low Channel was reported,
- (4), By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that "Z axis" position was the worst, and test data recorded in this report,
- (5), Radiated emission test from 9kHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9kHz to 30MHz and not recorded in this report,

## 8. BAND EDGE AND RF COUNDUCTED SPURIOUS EMISSIONS

### 8, 1 Block Diagram Of Test Setup

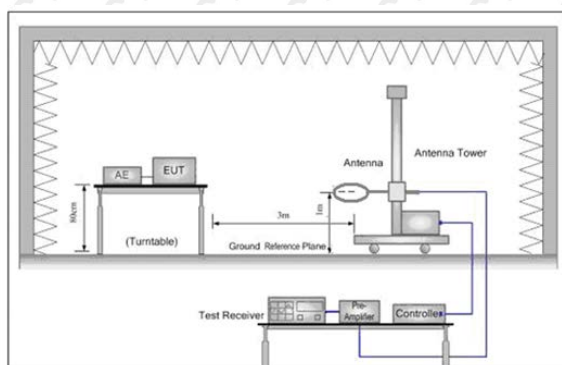


Figure 1, Below 30MHz

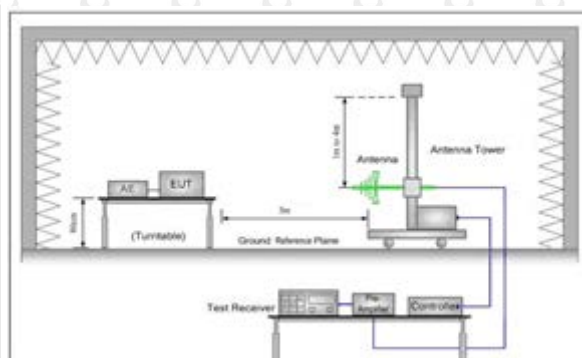
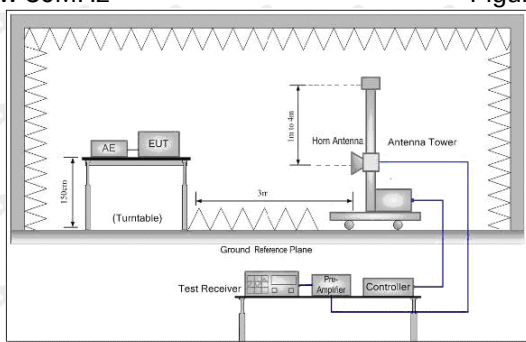


Figure 2, 30MHz to 1GHz



### 8, 2 Limit

Spurious Emissions:

| Frequency           | Field strength (microvolt/meter) | Limit (dBμV/m ) | Remark     | Measurement distance (m) |
|---------------------|----------------------------------|-----------------|------------|--------------------------|
| 0, 009MHz-0, 490MHz | 2400/F(kHz)                      | -               | -          | 300                      |
| 0, 490MHz-1, 705MHz | 24000/F(kHz)                     | -               | -          | 30                       |
| 1, 705MHz-30MHz     | 30                               | -               | -          | 30                       |
| 30MHz-88MHz         | 100                              | 40, 0           | Quasi-peak | 3                        |
| 88MHz-216MHz        | 150                              | 43, 5           | Quasi-peak | 3                        |
| 216MHz-960MHz       | 200                              | 46, 0           | Quasi-peak | 3                        |
| 960MHz-1GHz         | 500                              | 54, 0           | Quasi-peak | 3                        |
| Above 1GHz          | 500                              | 54, 0           | Average    | 3                        |

Note: 15, 35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test, This peak limit applies to the total peak emission level radiated by the device,

### 8, 3 Test procedure

- a, The EUT was placed on the top of a rotating table 0, 8 meters above the ground at a 3 meter semi-anechoic chamber, The table was rotated 360 degrees to determine the position of the highest radiation,
- b, The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower,
- c, The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength, Both horizontal and vertical polarizations of the antenna are set to make the measurement,
- d, For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rota table table was turned from 0 degrees to 360 degrees to find the maximum reading,
- e, The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode,
- f, If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported, Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet,

| Frequency          | Detector | RBW  | VBW  | Remark |
|--------------------|----------|------|------|--------|
| 2310MHz-2400MHz    | peak     | 1MHz | 3MHz | peak   |
| 2483, 5MHz-2500MHz | peak     | 1MHz | 3MHz | peak   |

#### 8, 4 Test Result

CH Low:  
Horizontal:

| No, | Frequency | Reading  | Correct      | Result   | Limit    | Margin | Remark |
|-----|-----------|----------|--------------|----------|----------|--------|--------|
|     | (MHz)     | (dBuV/m) | Factor(dB/m) | (dBuV/m) | (dBuV/m) | (dB)   |        |
| 1   | 2310.231  | 29.71    | -4.30        | 25.41    | 54       | -28.59 | peak   |
| 2   | 2343.698  | 29.70    | -4.28        | 25.42    | 54       | -28.58 | peak   |
| 3   | 2378.28   | 30.80    | -4.49        | 26.31    | 54       | -27.69 | peak   |
| 4   | 2389.999  | 26.18    | -4.88        | 21.31    | 54       | -32.69 | peak   |
| 5   | 2440.125  | 29.97    | -3.98        | 25.99    | 54       | -28.01 | peak   |

Vertical:

| No, | Frequency | Reading  | Correct      | Result   | Limit    | Margin | Remark |
|-----|-----------|----------|--------------|----------|----------|--------|--------|
|     | (MHz)     | (dBuV/m) | Factor(dB/m) | (dBuV/m) | (dBuV/m) | (dB)   |        |
| 1   | 2310.234  | 26.40    | -4.34        | 22.07    | 54       | -31.93 | peak   |
| 2   | 2343.998  | 30.77    | -4.26        | 26.51    | 54       | -27.49 | peak   |
| 3   | 2378.117  | 28.22    | -4.46        | 23.77    | 54       | -30.23 | peak   |
| 4   | 2390.053  | 26.80    | -4.87        | 21.93    | 54       | -32.07 | peak   |
| 5   | 2440.139  | 26.36    | -3.97        | 22.39    | 54       | -31.61 | peak   |

CH High:  
Horizontal:

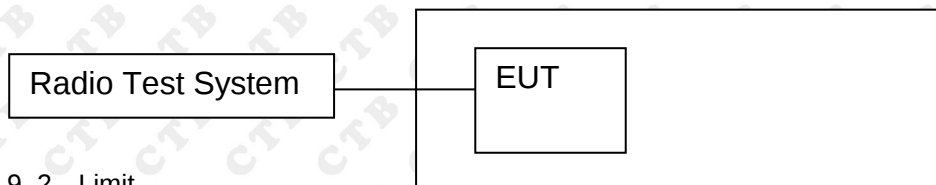
| No, | Frequency | Reading  | Correct      | Result   | Limit    | Margin | Remark |
|-----|-----------|----------|--------------|----------|----------|--------|--------|
|     | (MHz)     | (dBuV/m) | Factor(dB/m) | (dBuV/m) | (dBuV/m) | (dB)   |        |
| 1   | 2483.737  | 28.90    | -4.29        | 24.62    | 54       | -29.38 | peak   |
| 2   | 2488.822  | 29.91    | -4.33        | 25.58    | 54       | -28.42 | peak   |
| 3   | 2490.231  | 31.51    | -4.41        | 27.10    | 54       | -26.90 | peak   |
| 4   | 2493.185  | 33.55    | -4.97        | 28.58    | 54       | -25.42 | peak   |
| 5   | 2496.066  | 28.44    | -3.92        | 24.52    | 54       | -29.48 | peak   |

Vertical:

| No, | Frequency | Reading  | Correct      | Result   | Limit    | Margin | Remark |
|-----|-----------|----------|--------------|----------|----------|--------|--------|
|     | (MHz)     | (dBuV/m) | Factor(dB/m) | (dBuV/m) | (dBuV/m) | (dB)   |        |
| 1   | 2483.72   | 31.19    | -4.33        | 26.86    | 54       | -27.14 | peak   |
| 2   | 2488.993  | 32.61    | -4.28        | 28.32    | 54       | -25.68 | peak   |
| 3   | 2490.294  | 33.16    | -4.47        | 28.70    | 54       | -25.30 | peak   |
| 4   | 2493.171  | 29.41    | -4.91        | 24.50    | 54       | -29.50 | peak   |
| 5   | 2496.029  | 27.37    | -3.93        | 23.44    | 54       | -30.56 | peak   |

## 9. BANDWIDTH TEST

### 9, 1 Block Diagram Of Test Setup



### 9, 2 Limit

| FCC Part15 (15, 249) , Subpart C |           |                       |        |
|----------------------------------|-----------|-----------------------|--------|
| Section                          | Test Item | Frequency Range (MHz) | Result |
| 15, 249                          | Bandwidth | 2402-2483, 5          | PASS   |

### 9, 3 Test procedure

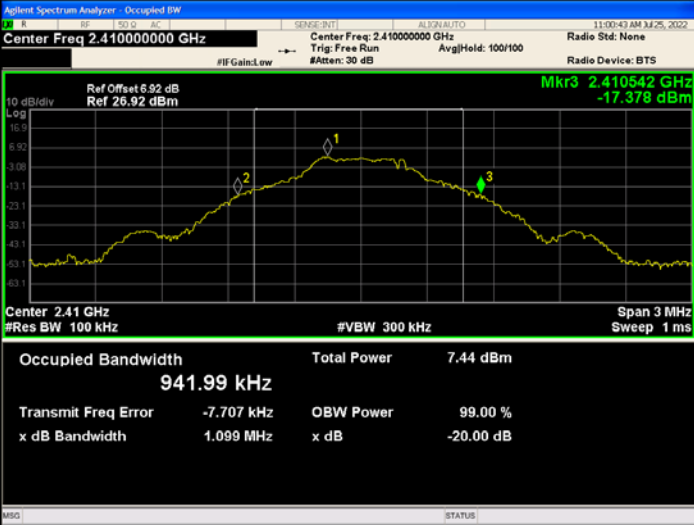
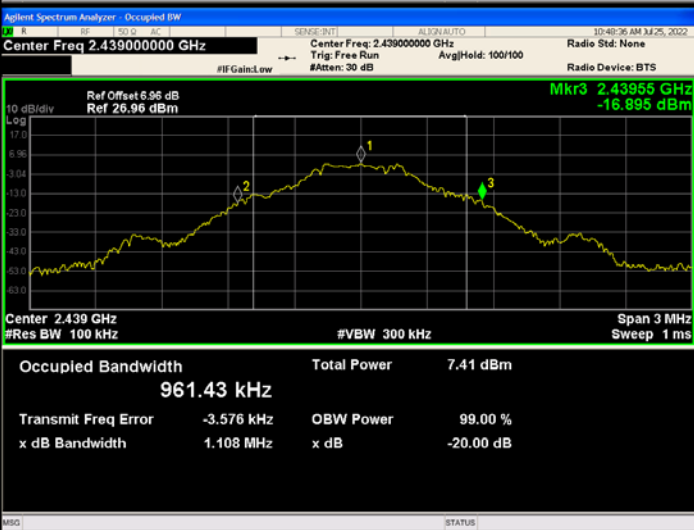
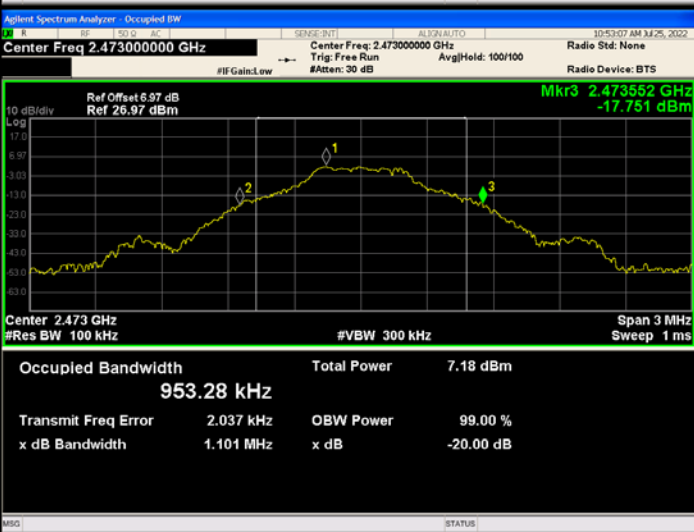
- 1, Set resolution bandwidth (RBW) = 1-5% or DTS BW, not to exceed 100 kHz,
- 2, Set the video bandwidth (VBW)  $\geq 3 \times$  RBW,
- 3, Detector = Peak,
- 4, Trace mode = max hold,
- 5, Sweep = auto couple,
- 6, Allow the trace to stabilize,
- 7, Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission,

### 9, 4 Test Result

| Test Mode | Frequency (MHz) | 20dB Bandwidth (MHz) | Result |
|-----------|-----------------|----------------------|--------|
| GFSK      | Low channel     | 1.099                | PASS   |
|           | Mid channel     | 1.108                | PASS   |
|           | High channel    | 1.101                | PASS   |

Note: All modes of operation were Pre-scan and the worst-case emissions are reported,

## Test Graph:

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>GFSK<br/>Low channel</p>  |  <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.410000000 GHz</p> <p>Center Freq: 2.410000000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 100/100</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset 6.92 dB</p> <p>Ref 26.92 dBm</p> <p>Mkr3 2.410542 GHz</p> <p>-17.378 dBm</p> <p>Center 2.41 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 3 MHz</p> <p>Sweep 1 ms</p> <p>Occupied Bandwidth 941.99 kHz</p> <p>Total Power 7.44 dBm</p> <p>Transmit Freq Error -7.707 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 1.099 MHz</p> <p>x dB -20.00 dB</p>   |
| <p>GFSK<br/>Mid channel</p>  |  <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.439000000 GHz</p> <p>Center Freq: 2.439000000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 100/100</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset 6.96 dB</p> <p>Ref 26.96 dBm</p> <p>Mkr3 2.43956 GHz</p> <p>-16.895 dBm</p> <p>Center 2.439 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 3 MHz</p> <p>Sweep 1 ms</p> <p>Occupied Bandwidth 961.43 kHz</p> <p>Total Power 7.41 dBm</p> <p>Transmit Freq Error -3.576 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 1.108 MHz</p> <p>x dB -20.00 dB</p>  |
| <p>GFSK<br/>High channel</p> |  <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.473000000 GHz</p> <p>Center Freq: 2.473000000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 100/100</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset 6.97 dB</p> <p>Ref 26.97 dBm</p> <p>Mkr3 2.473552 GHz</p> <p>-17.751 dBm</p> <p>Center 2.473 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 3 MHz</p> <p>Sweep 1 ms</p> <p>Occupied Bandwidth 953.28 kHz</p> <p>Total Power 7.18 dBm</p> <p>Transmit Freq Error 2.037 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 1.101 MHz</p> <p>x dB -20.00 dB</p> |

## 10. ANTENNA REQUIREMENT

15, 203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device, The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited,

15, 247(b) (4) requirement:

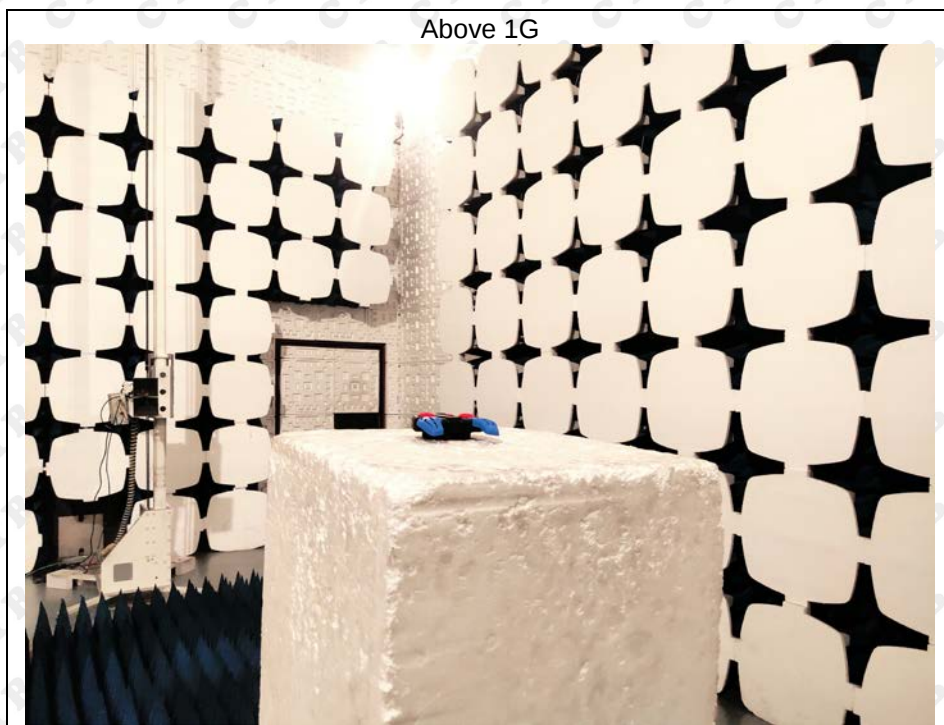
The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi, Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi,

### EUT Antenna:

The antenna is Interna Antenna, The best case gain of the antenna is 1dBi,

## 11. EUT TEST SETUP PHOTOGRAPHS

### Radiated Emissions



\*\*\*\*\* END OF REPORT \*\*\*\*\*